

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/112978 A1

(51) International Patent Classification⁷: B21B 19/06,
19/10, 37/78, B21D 3/04

(21) International Application Number:
PCT/AU2004/000726

(22) International Filing Date: 1 June 2004 (01.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003903206 23 June 2003 (23.06.2003) AU

(71) Applicant and

(72) Inventor: KASTROPIL, Anthony [AU/AU]; The White Gates, Yan Yean Road, Plenty, VIC 3090 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

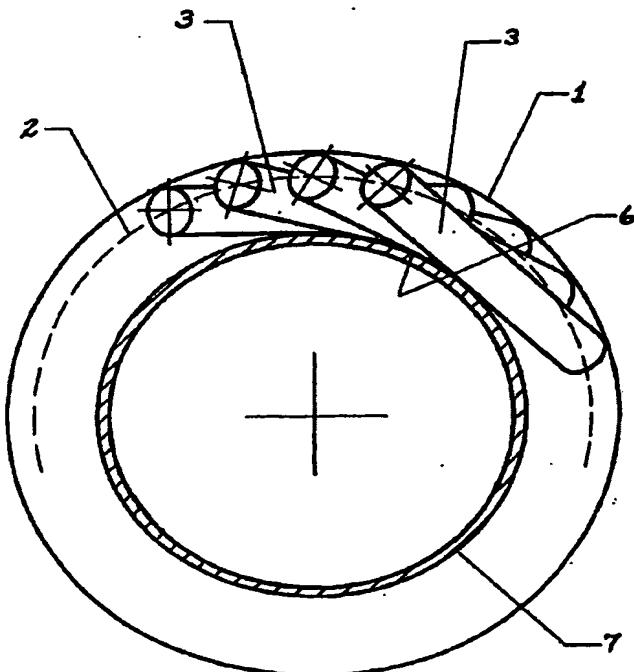
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, ER, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KB, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

{Continued on next page}

(54) Title: APPARATUS FOR RECTIFYING ROUND PIPE AND TUBING



(57) **Abstract:** Apparatus for reducing the diameter, rounding or straightening of pipe or tubing by rolling comprising a plurality of closely and equally spaced, long, narrow, parallel-cylindrical rollers arranged in a parallel-cylindrical array through which said pipe or tubing is passed at a constant linear speed, said rollers being skewed to displace their central contact zones radially inwards bringing them into forceful contact with the external surface of said pipe or tubing, and being rotated to cause said central contact zones to describe continuous, parallel, overlapping, helical paths along the external surface of said pipe or tubing and thereby to progressively apply locally to the whole of the external surface of said pipe or tubing a compressive force in excess of the yield strength of its material, causing said pipe or tubing to adopt a set at a smaller diameter.

WO 2004/112978 A1

BEST AVAILABLE COPY